

New York State Department of Transportation

Yellow Flag NB2228W009

By: Ben Colangelo

Flag Date: March 21, 2022

Superseding Information:

This flag supersedes: YF NB2158W015

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.

Date: March 21, 2022 10:00:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Ben Colangelo, P.E. 068498

Date: March 31, 2022

Reviewed By: Robert Kemp

Date: March 31, 2022

Attachments: 6

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 102			
	PR311 - Movable Bearing	17	each

Flagged Condition Description

This Yellow Flag No. NB2228W009 supersedes existing Yellow Flag No. NB2158W015.

Location: Span 103 Girder G1 at Pier 102

Description: The expansion bearing under Girder G1 on Span 103 side of Pier 102 is not functioning as designed with the bearing plate now overhanging the pedestal up to 1/2". The sliding bearing plate is loose and moves when the inspection team hammers at the bearing. The bearing plate is flush with the pedestal at the left side and overhanging the pedestal for 1/2" at the right side at 55 degree F (previously noted to be overhanging the pedestal for 1" at the left side and 2" at the right side at 49 degree F) (Photos 2 and 3). The front keeper plate at the bearing exhibits 8" long broken weld at the bottom of the plate starting at the right side with the remaining 6" of the weld intact and in good condition (no change from previous inspection). Due to the movement of the bearing plate, the top of the front keeper plate is bent towards the end side for 2" (no change from the previous inspection) (Photo 4).

The bearing exhibits moderate to heavy corrosion with approximately 15% section loss.

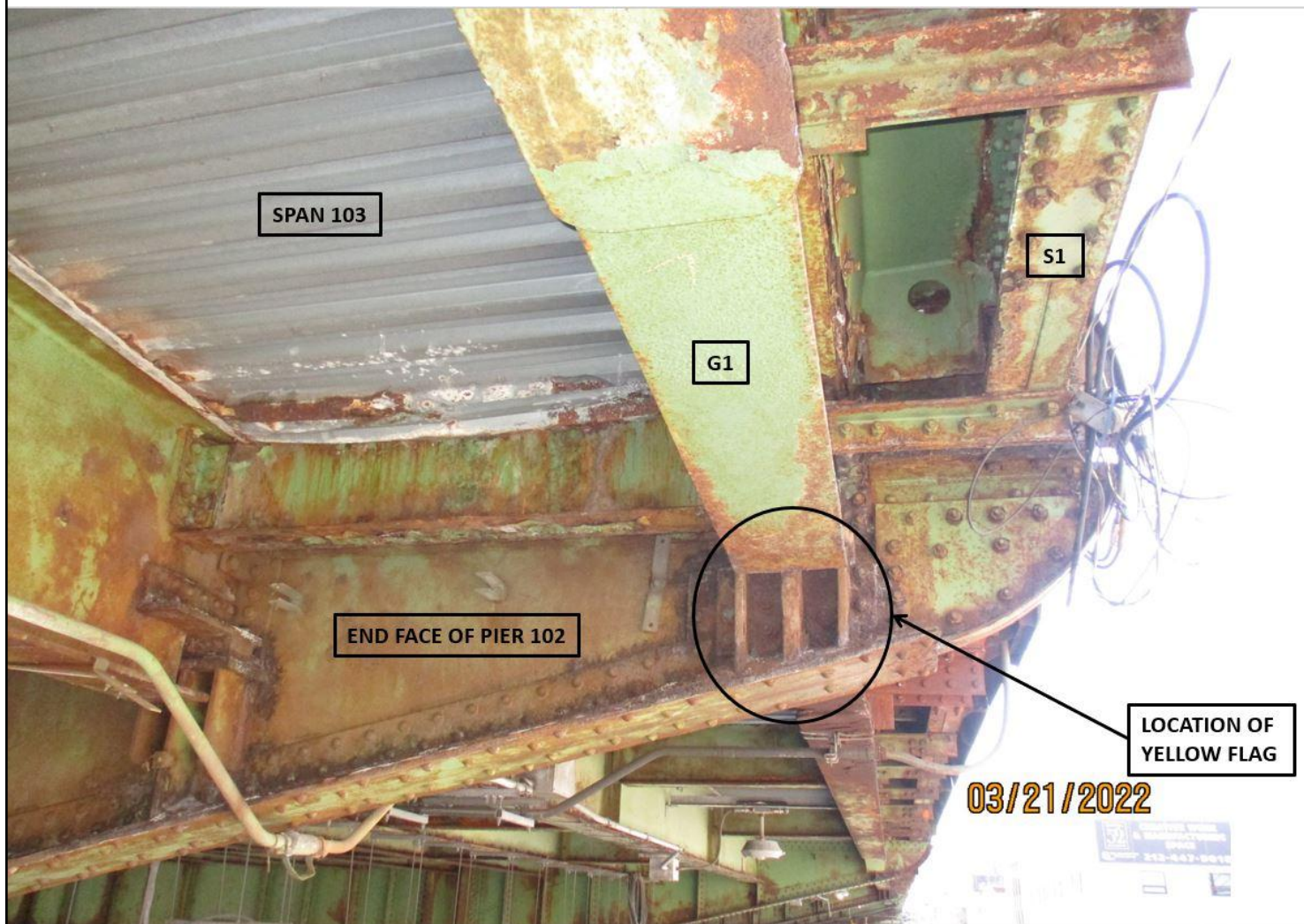
Notes:

- 1.The guide angles and keeper plates at the left and right side of the bearing exhibit corrosion but in generally good condition.
- 2.The joint seal on top of the deck is missing with daylight visible below bay 1. (Photo 5)
- 3.The end of Girder G1 at the bearing is in generally good condition.
- 4.The adjacent Girder G2 exhibits a 1" diameter corrosion hole at the top of the web adjacent to the top pre-drilled guide angle hole with 20% section loss at the lower web above the bottom flange in front of the bearing with moderate to heavy corrosion with approximately 15% section loss to the bearing plate.
- 5.The flagged condition is located above the center lane on 3rd Avenue WB roadway and was accessed using 30ft bucket truck with double left lane closure.

Flag Photographs

Photo Number: 1

Photo Filename: 305-3163.JPG



Attachment Description: General view of the flagged condition at bearing under Girder G1 on Span 103 side of Pier 102. Looking Begin.

Photo Number: 2

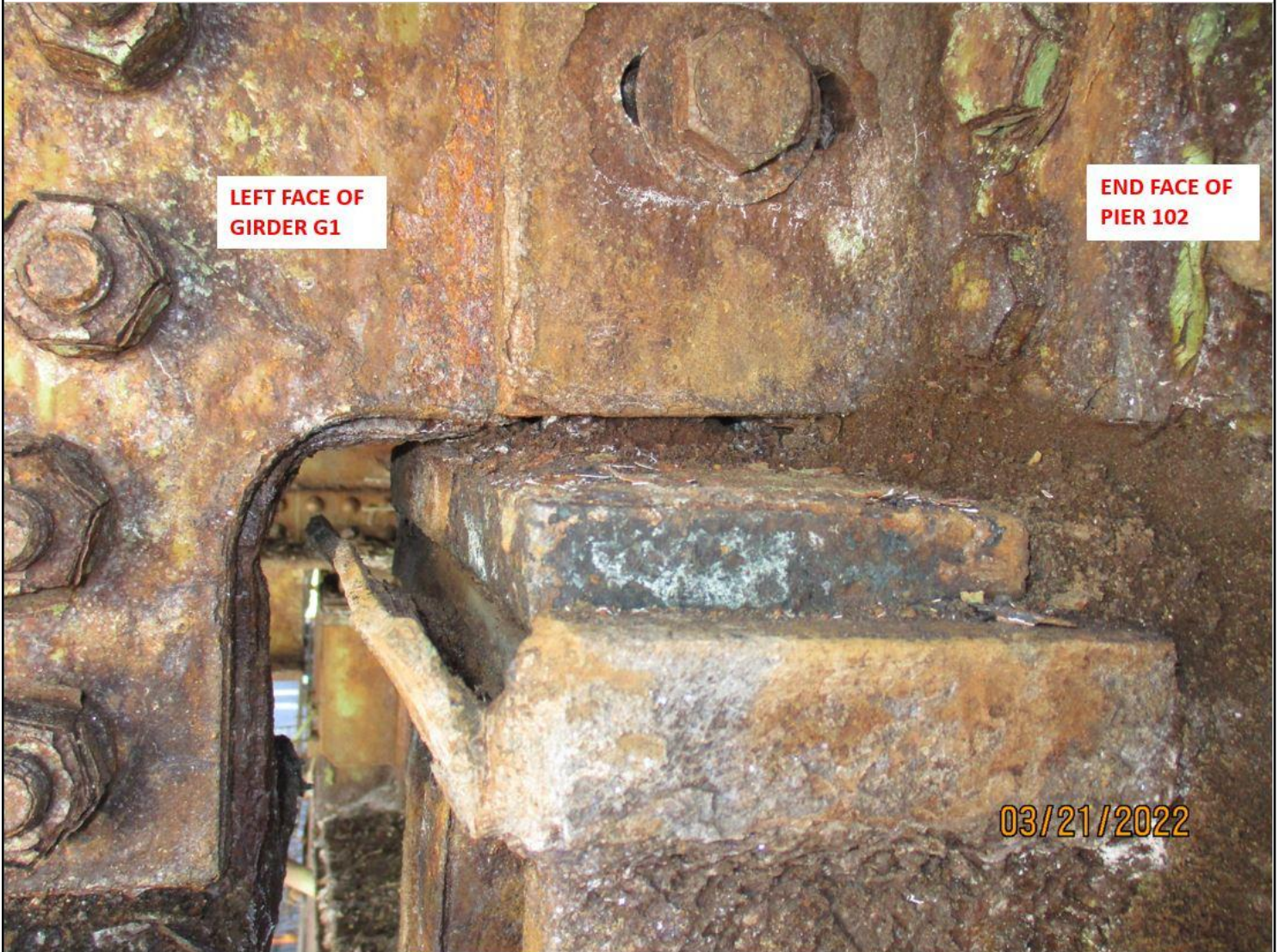
Photo Filename: 305-3150.JPG



Attachment Description: The right face of the bearing under Girder G1 on Span 103 side at Pier 102. The bearing plate is loose and overhangs the pedestal with the top of the keeper plate bent towards the end. Looking Left.

Photo Number: 3

Photo Filename: 305-3128.JPG



Attachment Description: The left face of the bearing under Girder G1 on Span 103 side at Pier 102. The bearing plate is loose and is flush with the edge of the pedestal. The top of the front keeper plate is bent towards the end. Looking Right.

Photo Number: 4

Photo Filename: 305-3135.JPG



Attachment Description: The bottom of the bearing under Girder G1 on Span 103 side at Pier 102. The bottom of the front keeper plate exhibits broken weld starting at the right side. Looking Begin.

Photo Number: 5

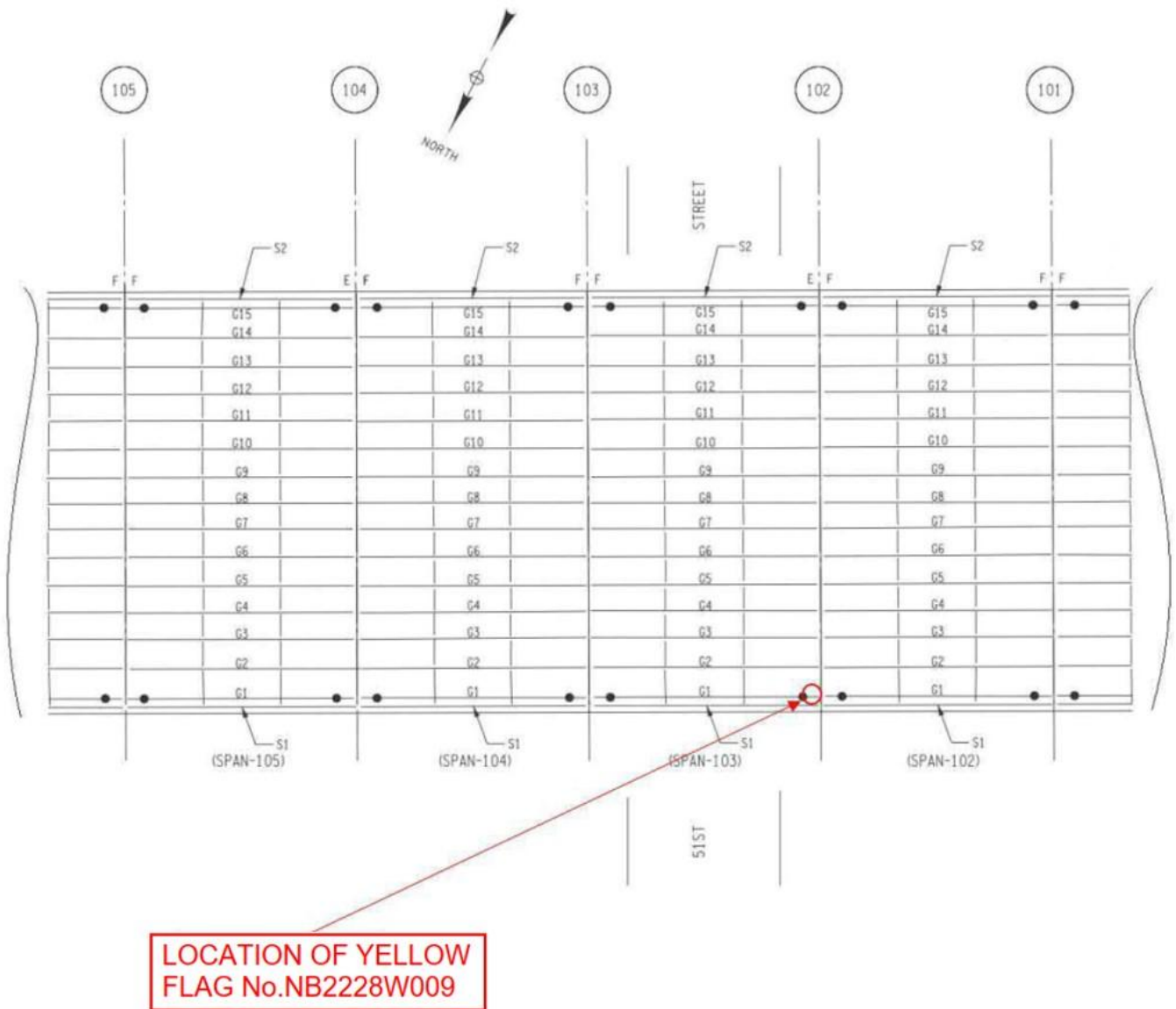
Photo Filename: 305-3161.JPG



Attachment Description: The underside of the Pier 102 joint below Bay 1 on the end side of the pier. The joint on top of the deck exhibits missing joint seal with daylight visible from underside of joint. Looking Left.

Photo Number: 6

Photo Filename: FRAMING PLAN.jpg



Attachment Description: BIN 1065318, Framing Plan, Spans 102-105